Seviet Bloc Procurement and Use of Titanium

The titanium metal industry in the USSR in 1955 may have reached either the advanced pilot-plant stage of development or small-scale commercial production. Under these conditions the 1955 output of titanium metal spenge probably would not exceed 600 metric tons and might be as little as 60 metric tons. Titanium research and development activity in other Bloc countries is insignificant.

To date, actual Bloc imports of titanium metal have been negligible. We have noted sporadic attempts by the Bloc to purchase titanium sponge metal, but the available supply on the world market has been extremely limited. The Bloc has also been deterred from acquiring titanium in Free World markets by its inability to overcome the difficult technological problem of producing a asable end-product from titanium metal sponge.

Evidence of the use of titanium metal in Bioc aircraft or in other applications on more than an experimental basis is completely lacking, except for the use of titanium as a stabiliser in alloy steels. It has long been standard practice to introduce titanium in the metal bath as ferre-titanium.

With respect to the purely theoretical aspects of titanium research and development. Soviet technical publications suggest the possibility of significant advances in titanium chemistry, physics, and electrometallurgy. There is no evidence, however, that these activities are as far advanced as in the U.S. If this degree of progress had occurred, it is highly probable that it would have been reflected in the Soviet literature.

In any event, as has been shown in the U.S., the key to titanium metal utilization is production engineering.

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USSR for 1955 was at least 5,000 metric tons. This production estimate cannot be accepted at the present time, because there is no physical evidence of Soviet utilization of titanium metal, and because there is no confirmatory information.

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